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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/694,481		10/27/2003	Abhinand Lath	1042-004	4268	
25215	7590	11/04/2005		EXAMINER		
DOBRUSII 29 W LAWI		ENNISCH PC	LEE, GUIYOUNG			
SUITE 210	CENCE 3			ART UNIT PAPER NUMBER		
PONTIAC,	MI 4834	2		2875		
				DATE MAILED: 11/04/2006	ς	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	plication No. Applicant(s)						
	10/694,481	LATH, ABHINAND .						
Office Action Summary	Examiner	Art Unit	-					
	Guiyoung Lee	2875						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this composition (35 U.S.C. § 133).	·					
Status								
1) Responsive to communication(s) filed on 26 Ju	ily 2005.							
2a) ☐ This action is FINAL . 2b) ☒ This								
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.						
Disposition of Claims								
4) Claim(s) 1-22 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-22</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1	TO-152.					
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau	s have been received. s have been received in Applicati ity documents have been receive	on No	Stage					
* See the attached detailed Office action for a list		d.						
Attachment(s)								
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	O-152)					

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DETAILED ACTION

Prelim./Amdt.

1. Receipt is acknowledged of the amendment filed 07/26/2005.

2. Claims 1-22 are pending.

Response to Arguments

persuasive. In response to Applicant's arguments that the reference to Doneen does not disclose the limitation, "transmitting light from a first location on a first surface to a second location on the first surface" as claimed in independent claims 1, 7, and 11, Examiner does not agree with Applicant's argument. First, as a general matter, the grammar and intended meaning of terms used in a claim will dictate whether the language limits the claim scope. Language that suggests or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim or claim limitation. For example, Doneen discloses a plurality of waveguide 54 embedded in the substrate 52. If Doneen's waveguide 54 is capable of transmitting light from a first location to a second location, then Doneen's waveguide meets the limitation above. In other word, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

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Claim Objections

4. Claims 19 are objected to because of the following informalities: The phrase "claim 17" appears a typographical error. Appropriate correction is required.

5. Claim 20 is objected to because of the following informalities: Claim 20 recites the limitation "its" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-11, 15, and 21-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Doneen et al. (US 4,906,837) cited by Applicant.

Re claims 1-5 and 7-10: Doneen discloses an article of manufacture for detecting motion and a method of making an article of manufacture, comprising a substrate (52 in Fig. 2) having a plurality of light pipes (54, 56, 58, 72, 74, 76, and 78 in Fig. 2), wherein each light pipe is capable of transmitting light from a first location to a second location (col. 4, line 56 +). Further, Doneen discloses the light pipe is capable of transmitting light from a plurality of locations to a single location, from a single location to a plurality of locations (See the splitter junctions 73, 75 and 77 of the light pipes in Fig. 2).

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Re claims 6 and 15: Doneen discloses the light pipe and the substrate are the same material and wherein the light pipes are separated from the substrate along at least a portion of their length by a refractive index boundary (col. 4, lines 5-22).

Re claims 11 and 21-22: Doneen discloses a method of making an article of manufacture by creating a refractive index boundary between the pipe and the substrate and a method of transmitting information through a plurality of light pipes in a substrate as discussed above. Further, Doneen discloses a step of interfering with the transmission of light through the light pipe before the light arrives at the second location a plurality of lenses is interfering the transmission of light (col. 2, lines 32-42)].

7. Claims 11-14 and 19-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Stanford (US 6,082,886).

Re claims 11-14 and 19-20: Stanford discloses a method of an article of manufacture comprising a concrete block substrate (12 in Fig. 1) and a plurality of light pipe imbedded in the concrete substrate (20 in Fig. 3) so that there is a refractive index boundary between the light pipes and the concrete substrate. Further, Stanford discloses an external, visible light source (22), wherein light inputted into a first end of the light pipe is guided along the light pipe and emitted at the second end of the light pipe. Furthermore, Stanford teaches a method of making the article by embedded the light pipe in an uncured concrete substrate (col. 4, lines 5-39).

8. Claims 11 and 16-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Daniel (US 4,234,904).

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Re claims 11 and 16-17: Daniel discloses a method of making an article of manufacture, comprising a step of creating a refractive index boundary between a material (optical fiber) and a substrate (cloth threads). Further, Daniel discloses a method of making an article comprising a step of combining at least one light pipe with a plurality of fibers to form a woven fabric (Fig. 4 and col. 2, lines 32 ++).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doneen. Re claims 18: Doneen discloses at least one light pipe having a first end pointing in a first direction and a second end pointing in a second direction (See 72, 74 and 76 in Fig. 2). Further, Doneen discloses the first end and the second end of the light pipe is coplanar and flush with a first exposed surface and a second exposed surface of the matrix respectively. Doneen does disclose that the first and second directions of the light pipe are opposed to each other. However, light pipe or optical fiber is flexible so that they are easily bendable. Doneen further disclose the light pipe is bended (See 100 and 118 in Fig. 3). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Doneen's light pipe to extend in different directions because of the flexibility of the light pipe.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guiyoung Lee whose telephone number is 571-272-2374. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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